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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-----------------|----------------------|-------------------------|------------------|--|
| 09/665,617 | 09/19/2000 | Kuniki Kino | 506.39084X00 | 5296 | |
| 20457 | 7590 03/11/2005 | • | EXAM | INER | |
| ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889 | | | MARX, | MARX, IRENE | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 1651 | | |
| | | | DATE MAILED: 03/11/2005 | 5 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| 11 - | | | | | | | | |
|--|--|---|---|-----------------------|--|--|--|--|
| 1 | | Application No. | Applicant(s) | | | | | |
| | | 09/665,617 | KINO ET AL. | | | | | |
| | Office Action Summary | Examiner | Art Unit | | | | | |
| | | Irene Marx | 1651 | | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | | |
| THE I - Externanter - If the - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a within the statutory minimum of thi will apply and will expire SIX (6) MO cause the application to become A | n reply be timely filed irty (30) days will be considered time INTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133). | dy. communication. | | | | |
| Status | | | · | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 27 January 2005. | | | | | | | |
| , — | This action is FINAL . 2b) This action is non-final. | | | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | | |
| Dispositi | on of Claims | | | | | | | |
| 4)⊠ Claim(s) <u>1,5-10 and 13</u> is/are pending in the application. | | | | | | | | |
| 4a) Of the above claim(s) 6-10 is/are withdrawn from consideration. | | | | | | | | |
| 5)⊠ | 5)⊠ Claim(s) <u>5</u> is/are allowed. | | | | | | | |
| 6)⊠ | 6)⊠ Claim(s) <u>1 and 13</u> is/are rejected. | | | | | | | |
| • | 7) Claim(s) is/are objected to. | | | | | | | |
| 8)□ | 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | | |
| Applicati | on Papers | | | | | | | |
| 9)☐ The specification is objected to by the Examiner. | | | | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Priority (| ınder 35 U.S.C. § 119 | | • | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | | | |
| | 1. Certified copies of the priority documents | s have been received. | | | | | | |
| | 2. Certified copies of the priority document | s have been received in | Application No | | | | | |
| | 3. Copies of the certified copies of the prior | ity documents have bee | n received in this National | l Stage | | | | |
| | application from the International Bureau | ı (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| | | | | | | | | |
| Attachmen | t(s) | | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | | | | | | | | |
| | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date | 5) | | O-192) | | | | |
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Application/Control Number: 09/665,617

Art Unit: 1651

The amendment filed 1/27/05 is acknowledged. Claims 1, 5 and 13 are being considered on the merits.

Claims 6-10 are withdrawn from consideration as directed to a non-elected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112: The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 13 are/remain rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the production of histidine with strains derived from *Escherichia coli* FERM-BP-6673, does not reasonably provide enablement for the production of this amino acid with any *Escherichia coli* resistant to 150 mg/l of primaquine or alkali metal salts thereof. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims.

Response to Arguments

Applicant's arguments and the new Abe declaration have been fully considered but they are not deemed to be persuasive.

The data in the declaration demonstrate that after a number of random mutagenesis and selection steps of *E. coli* strain ATCC 27325, a large number of picked up strains and the parent strain were subjected to HPLC to assess histidine production. From this selection process, it is indicated that one strain was selected that produces L-histidine (TZA-51), page 3, paragraph 2. However, in direct contradiction to this statement, Table 1 indicates that this strain does not produce L-histidine. The selection of further strains that do produce histidine was effected by random mutagenesis and selection with 400 mg/l primaquine. These results fail to demonstrate a clear correlation between resistance to 150 mg/l primaquine as claim designated and the production of L-histidine by any *E. coli*. The effect of resistance 400 mg/l primaquine is not informative in this regard.

Application/Control Number: 09/665,617

Art Unit: 1651

Thus, the scope of the claims is not commensurate with the teachings of enablement of the specification.

Claim 5 is allowable.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frimary Examiner
Art Unit 1651